

Leonardo da Vinci. *The Vitruvian Man* (drawing circa 1490) Gallerie dell'Accademia, in Venice, Italy.

Course covers current knowledge of cellular and molecular biology: cell chemistry, transcription, translation, cell architecture, metabolism, signal transduction pathways, DNA repair and genome stability, cell division, and the cell cycle.

Version: 08/17/2021 This syllabus is subject to change

Course syllabus\*, contemO

CRN	CRN	
3 Credits Prerequisite	es: BIOL F260; CHEMF105X; CHEMF106X or concurrent enrol	lment.
Topic: BIOL:	: asynchronous class, lectures on the BlackBoard 360-2021	
D	Dr. Andrej Podlutsky (faculty IAB-CNSM)	

**Instructional methods**: This course will be taught through a combination of lecture videos, problem solving, and reading scientific publications.

Format of the course: The course contains 10 modules, covering 20 chapters of the textbook.

Lectures and videos will be posted online according to the table

each exam might be in the form of take-home questions in which you apply the mowledge you learn in class to solve problems.

(2) Home work assignments (100): five home works assignments will be made during the course, 20 points each.

**BONUS:** to earn extra points (maximum - **25 points**) you will need to choose some exciting topic in "cell and molecular

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Week-10	6	Membrane Structure	Ch 11			
Oct-25		Transport	Ch 12	October-30		
Week-11	7	Metabolism	Ch 13			
Nov-1		Mitochondria	Ch 14	November-6		
Week-11 November-4 Exam-2 chapters 7-14						
Week-12	8	Protein Transport	Ch 15			
Nov-8		Cell Communication	Ch 16	November-13		
Week-13	9	Cytoskeleton	Ch 17			
Nov-15		Cell Division	Ch 18	November-20		
Week-14	10	Sexual reproduction	Ch 19			
Nov-22						
Week-15		Cancer	Ch 20			
Nov-29				December-4		
Week-15 November-30 Exam-3 chapters 15-20						
FINAL EXAM December-6 chapters 1-20						

http://uaf.edu/usa/student-resources/conduct/#condu

- 10. disruptive or obstructive actions;
- 11. mistreatment of animals;
- 12. misuse of firearms, explosives, weapons, dangerous devices, or dangerous chemicals;
- 13. failure to comply with university directives;
- 14. misuse of alcohol;
- 15. misuse of drugs or other intoxicants;
- 16. violation of regents' policy, university regulation, rules, or procedures; or
- 17. any other actions that result in unreasonable interference with the learning environment or the rights of others.
- C. Examples of actions that constitute these prohibitions will be described in the university regulation and MAU rules and procedures.
- D. This policy and university regulation and MAU rules and procedures are not intended to define prohibited conduct in exhaustive terms, but rather to set forth examples to serve as guidelines for acceptable and unacceptable behavior.

The university has established procedures for enforcing the UA code of conduct. Each student at the university shall be afforded due process in all disciplinary matters. For a complete guide to these procedures, please refer to <u>Board of Regents Policy and University Regulation 09.02 (PDF)</u>.